## **WEST Search History**

Hide Items Restore Clear Cancel

DATE: Monday, February 12, 2007

**Hide?** Set Name Query

**Hit Count** 

DB=USPT; PLUR=YES; OP=ADJ

L1 (546/197.ccls. or 514/321.ccls.) and paroxetine

94

END OF SEARCH HISTORY

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(FILE 'HOME' ENTERED AT 15:07:12 ON 12 FEB 2007)
     FILE 'CAPLUS' ENTERED AT 15:07:24 ON 12 FEB 2007
L1
              1 S (EXCIP? OR CARRIER?) (L) (GLYCOLLATE (L) PHOSPHATE (L) STEARATE)
     FILE 'STNGUIDE' ENTERED AT 15:08:22 ON 12 FEB 2007
L2
              0 S (GLYCOLLATE(L) PHOSPHATE(L) STEARATE)
     FILE 'CAPLUS' ENTERED AT 15:09:31 ON 12 FEB 2007
              7 S (GLYCOLLATE (L) PHOSPHATE (L) STEARATE)
L3
              0 S L3 NOT L2
L4
=> s 13 not 11
             6 L3 NOT L1
L5
=> d bib abs hit 1-6
     ANSWER 1 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
L5
AN
     2004:902182 CAPLUS
DN
     141:384290
     Improved formulations of amlodipine maleate using magnesium-free
TI
     lubricants
IN
     Pragai, Gabor; Orosz, Eva; Szilagyi, Judit; Nagy, Edit; Ban, Lidia
     Teva Pharmaceutical Industries Ltd., Israel; Teva Pharmaceuticals USA,
PA
SO
     PCT Int. Appl., 30 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 1
                       KIND
                                DATE
                                           APPLICATION NO.
                                                                   DATE
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                                            -----
PΙ
     WO 2004091614
                         A2
                                20041028
                                           WO 2004-US11642
                                                                   20040412
     WO 2004091614
                         A3
                                20050120
     WO 2004091614
                         A8
                                20061116
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
         W:
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
             BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
             ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
             SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
             TD, TG
     CA 2559670
                                20041028
                                            CA 2004-2559670
                          A1
                                                                   20040412
     US 2005019395
                         A1
                                20050127
                                           US 2004-823802
                                                                   20040412
                       . P
PRAI US 2003-462813P
                                20030414
     WO 2004-US11642
                         W
                                20040412
AB
     The present invention provides improved, more stable formulations of
     amlodipine maleate where the formulations comprise from none to a minimal
     amount of magnesium. Such stable formulations show decreased production of the
     impurity amlodipine aspartate. Accordingly, the present invention
     provides formulations of amlodipine maleate comprising lubricants such as
     sodium stearyl fumarate, dimeticone, macrogol 6000, hydrogenated castor
     oil, and stearic acid. Methods of making and using the improved
     formulations are also provided. For example, tablets free of magnesium
     stearate contained amlodipine maleate 3%, microcryst. cellulose
     57%, calcium hydrogen phosphate 32%, sodium starch
     glycollate 2%, colloidal silica 4%, lubricant 1%.
AB
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The present invention provides improved, more stable formulations of

amlodipine maleate where the formulations comprise from none to a minimal amount of magnesium. Such stable formulations show decreased production of the impurity amlodipine aspartate. Accordingly, the present invention provides formulations of amlodipine maleate comprising lubricants such as sodium stearyl fumarate, dimeticone, macrogol 6000, hydrogenated castor oil, and stearic acid. Methods of making and using the improved formulations are also provided. For example, tablets free of magnesium stearate contained amlodipine maleate 3%, microcryst. cellulose 57%, calcium hydrogen phosphate 32%, sodium starch glycollate 2%, colloidal silica 4%, lubricant 1%.

- L5 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
- AN 2002:849407 CAPLUS
- DN 137:342137
- TI An improved process for preparation of four-drug antitubercular fixed dose combination
- IN Sen, Himadri; Jindal, Kour Chand; Deo, Kishor Dattatray; Gandhi, Krishnakant Tulsiram
- PA Lupin Laboratories Limited, India
- SO PCT Int. Appl., 40 pp.
- CODEN: PIXXD2
- DT Patent
- LA English
- FAN.CNT 1

	PATENT NO.					KIND DATE			APPLICATION NO.						DATE				
ΡI	I WO 2002087547			A1	_	20021107		1	WO 2	001-		20010427							
		W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	ВG,	BR,	BY,	ΒZ,	CA,	CH,	CN,	
			co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	
			HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	ΚP,	KR,	KZ,	LC,	LK,	LR,	LS,	
			LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PL,	PT,	RO,	
			RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	ŪĠ,	US,	UΖ,	
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		RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,	
			DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,	
			ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG			
	BR	2001	0169	94		Α					BR 2001-16994						20010427		
	IN	2003	MN00	998		Α		2005	0624		IN 2	003-	MN99	8		20	0031	027	
	ZA	2003	0092	12		Α	A 20040917			ZA 2003-9212						20031126			
	IN	2004	MNOO	220		A				IN 2004-MN220						20040412			
PRAI	WO	2001	-IN9	3		Α		2001	0427										
	IN 2003-MN998			A3		2003	1027												

AB An improved process for preparation of a composition comprising fixed dose combination (FDC) of four antitubercular drugs, viz., rifampicin, isoniazid, pyrazinamide and ethambutol hydrochloride, which improves the dissoln. of poorly soluble drug rifampicin and hence improve its bioavailability (without use of a surfactant) is described. For example, a three-step granulation process was carried out: (i) rifampicin, microcryst. cellulose or lactose, crospovidone and pregelatinized starch or povidone were mixed. Ascorbic acid was dissolved in water and then pregelatinized starch dispersed in water or povidone was dissolved in water to make a binder solution The blend was granulated with the binder solution (ii) Isoniazid, pyrazinamide, microcryst. cellulose or lactose were mixed and granulated with pregelatinized starch dispersed in water or povidone dissolved in water. (iii) Ethambutol hydrochloride and microcryst. cellulose or dicalcium phosphate were mixed and granulated with gelatin solution After drying, the granules of all 3-steps were blended together and mixed with silicon dioxide, microcryst. cellulose, crospovidone or sodium starch glycollate and magnesium stearate. The granules were compressed into tablets and coated with Opadry AMB Brown (polyvinyl alc., titanium dioxide, talc, lecithin, xanthan gum and iron oxide colorant). Rifampicin release from the tablets prepared was 72.6%, 83.6%, 90.1%, and 95.2%, within 10, 20, 30, and 45 min, resp.

## RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

An improved process for preparation of a composition comprising fixed dose combination (FDC) of four antitubercular drugs, viz., rifampicin, isoniazid, pyrazinamide and ethambutol hydrochloride, which improves the dissoln. of poorly soluble drug rifampicin and hence improve its bioavailability (without use of a surfactant) is described. For example, a three-step granulation process was carried out: (i) rifampicin, microcryst. cellulose or lactose, crospovidone and pregelatinized starch or povidone were mixed. Ascorbic acid was dissolved in water and then pregelatinized starch dispersed in water or povidone was dissolved in water to make a binder solution The blend was granulated with the binder solution (ii) Isoniazid, pyrazinamide, microcryst. cellulose or lactose were mixed and granulated with pregelatinized starch dispersed in water or povidone dissolved in water. (iii) Ethambutol hydrochloride and microcryst. cellulose or dicalcium phosphate were mixed and granulated with gelatin solution After drying, the granules of all 3-steps were blended together and mixed with silicon dioxide, microcryst. cellulose, crospovidone or sodium starch glycollate and magnesium stearate. The granules were compressed into tablets and coated with Opadry AMB Brown (polyvinyl alc., titanium dioxide, talc, lecithin, xanthan gum and iron oxide colorant). Rifampicin release from the tablets prepared was 72.6%, 83.6%, 90.1%, and 95.2%, within 10, 20, 30, and 45 min, resp.

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L5 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
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- AN 2002:171691 CAPLUS
- DN 136:236838
- TI Paroxetine compositions having improved stability
- IN Van Dalen, Frans; Platteeuw, Johannes Jan; Peters, Theodorus Hendricus Antonius; Lemmens, Jacobus Maria; Picha, Frantisek
- PA Synthon B.V., Neth.
- SO PCT Int. Appl., 28 pp.

CODEN: PIXXD2

- DT Patent
- LA English
- FAN. CNT 1

· PAIN.	PATENT NO.				KIND DATE				•	APPL	ICAT		DATE					
PI		O 2002017921 O 2002017921								WO 2001-NL635						20010828		
·		W:	AE, CO, GM, LS, RO, UZ, GH,	AG, CR, HR, LT, RU, VN, GM,	AL, CU, HU, LU, SD, YU, KE,	AM, CZ, ID, LV, SE, ZA, LS,	AT, DE, IL, MA, SG, ZW MW,	AU, DK, IN, MD, SI, MZ, GB,	AZ, DM, IS, MG, SK,	DZ, JP, MK, SL,	EC, KE, MN, TJ,	EE, KG, MW, TM,	ES, KP, MX, TR,	FI, KR, MZ, TT,	GB, KZ, NO, TZ,	GD, LC, NZ, UA,	GE, LK, PL, UG,	GH, LR, PT, US,
	CA	2419	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG	
									CA 2001-2418038 AU 2001-96084						20010828			
		6645								'	03 2	001-		20010020				
										EP 2001-976929						20010828		
								ES,										
								RO,					,	,	,	,	,	,
	JΡ	2004								JP 2002-522894						20010828		
		2003								HU 2003-3827						20010828		
		5239						2004	0528	NZ 2001-523902						20010828		
	NO	2003	00084	48		Α			0224	NO 2003-848								
	ZA 2003001532															00302	225	
PRAI		2004									US 2003-678082					. 20031006		

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US 2000-234936P P 20000926
US 2001-939561 A3 20010828
WO 2001-NL635 W 20010828
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AB Paroxetine salt compns. having improved stability are formed by controlling the pH to 6.5 or less. The compns. can be made with the aid of water without significant coloration problems. The paroxetine salt include paroxetine hydrochloride salts but preferably use paroxetine sulfonate salts such as paroxetine methane sulfonate. A tablet contained paroxetine mesylate 51.66, calcium hydrogen phosphate 411.83, microcryst. cellulose 213.92, sodium starch glycollate 28.52, and magnesium stearate 7.13 mg, pH = 5.45.

AB Paroxetine salt compns. having improved stability are formed by controlling the pH to 6.5 or less. The compns. can be made with the aid of water without significant coloration problems. The paroxetine salt include paroxetine hydrochloride salts but preferably use paroxetine sulfonate salts such as paroxetine methane sulfonate. A tablet contained paroxetine mesylate 51.66, calcium hydrogen phosphate 411.83, microcryst. cellulose 213.92, sodium starch glycollate 28.52, and magnesium stearate 7.13 mg, pH = 5.45.

- L5 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
- AN 1999:81568 CAPLUS
- DN 130:130004
- TI Pharmaceutical compositions containing selective serotonin re-uptake inhibitors for the treatment and prevention of cardiac disorders using
- IN Jenner, Paul Norman
- PA Smithkline Beecham PLC, UK
- SO PCT Int. Appl., 10 pp. CODEN: PIXXD2
- DT Patent
- LA English
- FAN.CNT 1

FAN. CNT 1					WT110 - D. 200													
PATENT NO.									DATE									
ΡI						A1 19990128							19980714					
												, BY,						
												, HU,						
			KP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LU	, LV,	MD,	MG,	MK,	MN,	MW,	MX,
			NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG	, SI,	SK,	SL,	ТJ,	TM,	TR,	TT,
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		RW:										, AT,						
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										CA 1998-2296468								
						A 199902					AU	1998-		19980714				
		7394							EP 1998-933796									
	EP																	
		R:				DE,	DK,	ES,	FR,	GB,	GR	, IT,	LI,	LU,	NL,	SE,	MC,	PT,
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		NZ 502201 NO 2000000169				A		2001				1998-					9980	
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DDAT	US 6372763 PRAI GB 1997-14841						1007	7711		US.	2000-	±028	34		21	JUUU.	3 3 I	
LIVAL		1998																
						**		1000	J / 14									

AB A method for treating and/or preventing cardiac disorders in human or non-human animals comprise administering an effective, non-toxic amount of a serotonin re-uptake inhibitor (SSRI) or a pharmaceutically acceptable salt thereof. A pharmaceutical tablet contained paroxetine hydrochloride hemihydrate 22.88, dibasic calcium phosphate dihydrate 244.12, hydroxypropyl methylcellulose 15.00, sodium starch glycollate

15.00, and magnesium stearate 3.00 mg. The rate of myocardial infarction for patients who were taking SSRI over 4 yr period was 0.0204 as compared to 0.0226 events/patients year exposure for the general population, showing the patients taking SSRI were statistically less likely to develop a myocardial infarction than those who did not.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB A method for treating and/or preventing cardiac disorders in human or non-human animals comprise administering an effective, non-toxic amount of a serotonin re-uptake inhibitor (SSRI) or a pharmaceutically acceptable salt thereof. A pharmaceutical tablet contained paroxetine hydrochloride hemihydrate 22.88, dibasic calcium phosphate dihydrate 244.12, hydroxypropyl methylcellulose 15.00, sodium starch glycollate 15.00, and magnesium stearate 3.00 mg. The rate of myocardial infarction for patients who were taking SSRI over 4 yr period was 0.0204 as compared to 0.0226 events/patients year exposure for the general population, showing the patients taking SSRI were statistically less likely to develop a myocardial infarction than those who did not.

L5 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1996:689523 CAPLUS

DN 125:309102

TI Paroxetine tablets containing excipients

IN Pathak, Ram Dutta; Doughty, David George

PA Smithkline Beecham Plc, UK

SO PCT Int. Appl., 10 pp.

CODEN: PIXXD2

DT Patent

LA English

	CNT 1			•	
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PΙ	WO 9516448	A1	19950622	WO 1994-EP4164	19941214
	W: AM, A	AT, AU, BB, B	G, BR, BY,	CA, CH, CN, CZ, DE,	DK, EE, ES, FI,
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	US, U			*	
				DE, DK, ES, FR, GB,	
	MC, N	JL, PT, SE, B	F, BJ, CF,	CG, CI, CM, GA, GN,	ML, MR, NE, SN,
	TD, T				
	ZA 9409900	A	19951010	ZA 1994-9900	19941213
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	CA 2178637				
				CA 1994-2214575	19941214
		С	19991207		
	CA 2274387	A1	19950622	CA 1994-2274387	19941214
	CA 2274389	A1	19950622	CA 1994-2274387 CA 1994-2274389	19941214
	CA 2274389	C	20040914		
	AU 9513145	A	19950703	AU 1995-13145	19941214
	AU 697982				
				EP 1995-904476	19941214
	EP 734260				
	R: AT, E	SE, CH, DE, D	K, ES, FR,	GB, GR, IE, IT, LI,	LU, MC, NL, PT, SE
	CN 1137236	A	19961204	CN 1994-194457	19941214
	CN 1071116	В	20010919	CN 1994-194457  HU 1996-1665  JP 1995-516534	
	HU 75880	A2	19970528	HU 1996-1665	19941214
	JP 09506602	T	19970630	JP 1995-516534	19941214
	DP 0400310	B2	20000508	DD 4004 0010	
	BR 3400213	A	199/0826	BR 1994-8219	19941214
	AT 180973	T		AT 1995-904476	
				ES 1995-904476	
				RO 1996-1196	
	IL 111978	A CI		RU 1996-114954 IL 1994-111978	
	TT TT72/0	A	20000716	10 1994-111978	19941214

	CZ	287891	B6	20010314	ÇZ	1996-1763	19941214	Ł
	SK	282620	B6	20021008	SK	1996-756	19941214	Ŀ
	FΙ	9602445	Α	19960612	FI	1996-2445	19960612	?
	NO	9602547	Α	19960614	NO	1996-2547	19960614	Ŀ
	NO	307366	B1	20000327				
	US	6113944	Α	20000905	US	1998-108138	19980630	)
	ΗK	1012285	A1	20000630	HK	1998-113624	19981216	5
	US	2002086053	A1	20020704	US	2002-44848	20020111	-
	US	2003091628	A1	20030515	US	2002-287908	20021105	5
	US	2004005356	A1	20040108	US	2003-615322	20030708	}
	US	2004197403	A1	20041007	US	2004-829789	20040422	?
PRAI	GB	1993-25644	A	19931215				
	CA	1994-2214575	A3	19941214				•
	WO	1994-EP4164	W	19941214				
	US	1996-676331	B3	19960612				
	US	1998-108138	A2	19980630				
	US	1999-411764	B1	19991004				
	US	2002-44848	A1	20020111				
	US	2002-287908	A1	20021105 '				
ΔR	Par	coxetine is formula	ated i	nto tablets 1	hv i	ising a formulation	process i	n

- AB Paroxetine is formulated into tablets by using a formulation process in which water is absent. Thus, a tablet contained paroxetine hydrochloride hemihydrate 22.67, dicalcium phosphate 83.34, cellulose 50.67, sodium starch glycollate 8.34 and Mg stearate 1.67 mg.
- AB Paroxetine is formulated into tablets by using a formulation process in which water is absent. Thus, a tablet contained paroxetine hydrochloride hemihydrate 22.67, dicalcium phosphate 83.34, cellulose 50.67, sodium starch glycollate 8.34 and Mg stearate 1.67 mg.
- L5 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
- AN 1952:15502 CAPLUS
- DN 46:15502
- OREF 46:2701h-i,2702h-i,2703a-f
- TI Chemicals in foods: A report to the Association of Food and Drug Officials on current developments
- AU Lehman, Arnold J.
- CS U.S. Food and Drug Admin., Washington, DC
- SO Assoc. Food & Drug Officials U.S., Quart. Bull. (1951), 15, 82-9
- DT Journal
- LA Unavailable
- AΒ cf. C.A. 45, 3517h. Based on new pharmacol. data (not reported here) a number of items proposed as food additives are classified as suitable or unsuitable. (1) Food-packaging materials. Resins used in food-packaging materials considered to be suitable on a basis of their insoly. and(or) inertness are: polyvinyl chloride, polyvinyl acetate, polyvinyl chloride-acetate, vinylidene chloride, polystyrene, polyethylene, cellulose acetate, regenerated cellulose, terephthalic acid-ethylene glycol copolymer, and butadiene-acrylonitrile. Failure to extract Me and Et acrylate from certain formulations indicated these components to be safe in these particular films. A lack of data necessitates the classification of the following resins as unsuitable: polyvinyl formal, polyvinyl acetal, polyvinyl butyral, polymeric furfuryl alc., cumarone-indene, urea-HCHO, PhOH-HCHO, and aniline-HCHO. Plasticizers are more soluble in food substances than resins. Adequate investigation indicates these to be suitable plasticizers: ethyl phthalyl ethyl glycollate, p-tert-butylphenyl salicylate, 3-(2-xenoxy)-1,2-epoxypropane, 2-ethylhexyl diphenyl phosphate, butyl phthalyl butyl glycollate, glycerol monooleate, acetyl tributyl citrate, and diisobutyl adipate. Films prepared with di-2-ethylhexyl phthalate can be used for foods with a high H2O content, but oily foods leach this ester. The following plasticizers may be approved in the future: dicyclohexyl phthalate, dibutyl phthalate, methyl phthalyl ethyl glycollate, diisooctyl phthalate, dioctyl adipate, dibutyl sebacate, dioctyl sebacate, and dicapryl sebacate. Suitable stabilizers are: Al monostearate, Ca acetate, Ca ethyl acetoacetate acetate, CaCO3, Ca stearate, Ca

glycerophosphate, mono-, di-, and tricalcium phosphate, Ca oleate, Ca ricinoleate, Mg stearate, Mg glycerophosphate, mono-, di-, and trimagnesium phosphate, Na2HPO4, and NH4K phosphate. Compds. of Ba, Sr, Li, Cd, and Pb are too toxic for use as stabilizers. Salts of Mn and Cu and the oxide and stearate of Zn are safe stabilizers if the contamination therefrom is < 50 p.p.m. Salts of trivalent Cr and Cr2O3 are subject to oxidation to the quinquevalent state and hence are objectionable as stabilizers. lubricants are: oleates, stearates, and palmitates of Al, Ca, Mg, or Zn, used singly or in combination. Carnauba wax, paraffin, sugar-cane wax, and the synthetic acrawax C are safe lubricants, but metallic soaps of Ba, Cr, and Zr should not be so used. ZnCl2 is a safe antistatic when used in proper amts. (2) "Adhesive" plastics. Among the "adhesive" plastics Me polysiloxane and polytetrafluoroethylene can be used safely on candy wrappers and bread pans, resp., but polytrifluorochloroethylene remains under investigation. (3) Antioxidants. At 0.01% concentration Pr gallate is an antioxidant for fats, but it is unstable toward heat. 2,6-Di-tert-butyl-4-methylphenol and 2,2-dimethyl-6-tert-butyl-5hydroxycoumaran have passed preliminary toxicological investigations and are being studied further. (4) Synthetic sweetening agents. Perillartine (perilla anti-aldoxime) is an intensely sweet substance having an oral LD50 of 2.5 g./kg. in rats and does not produce symptoms in dogs at an oral dose of 5 g./kg. A diet containing 0.5% Perillartine produced some stunting of growth in rats after 4 weeks, possibly due to rendering the diet unpalatable. o-EtOC6H4NH2 is claimed to be 1400 times as sweet as sucrose, but its safety is questioned on basis of the toxicity of its normal propyl homolog. 2-Carboxy-4'-methoxydiphenyl ketone is 150 times as sweet as sucrose, but no toxicity data are available. Allyl cyclohexylpropionate, which imparts a pineapple odor, has an oral LD50 of 600 mg./kg. in rats and can be fed at 10 times the concentration used in food without injuring rats. 1-Ethoxy-2-hydroxy-4-propenylbenzene, with 8-16 times the flavoring effect of vanillin, has an oral LD50 of 2.4 g./kg. in rats and does not injure rats when fed at 1% in their diets for 3 months. cf. C.A. 45, 3517h. Based on new pharmacol. data (not reported here) a number of items proposed as food additives are classified as suitable or unsuitable. (1) Food-packaging materials. Resins used in food-packaging materials considered to be suitable on a basis of their insoly. and(or) inertness are: polyvinyl chloride, polyvinyl acetate, polyvinyl chloride-acetate, vinylidene chloride, polystyrene, polyethylene, cellulose acetate, regenerated cellulose, terephthalic acid-ethylene glycol copolymer, and butadiene-acrylonitrile. Failure to extract Me and Et acrylate from certain formulations indicated these components to be safe in these particular films. A lack of data necessitates the classification of the following resins as unsuitable: polyvinyl formal, polyvinyl acetal, polyvinyl butyral, polymeric furfuryl alc., cumarone-indene, urea-HCHO, PhOH-HCHO, and aniline-HCHO. Plasticizers are more soluble in food substances than resins. Adequate investigation indicates these to be suitable plasticizers: ethyl phthalyl ethyl glycollate, p-tert-butylphenyl salicylate, 3-(2-xenoxy)-1,2-epoxypropane, 2-ethylhexyl diphenyl phosphate, butyl phthalyl butyl glycollate, glycerol monooleate, acetyl tributyl citrate, and diisobutyl adipate. Films prepared with di-2-ethylhexyl phthalate can be used for foods with a high H2O content, but oily foods leach this ester. The following plasticizers may be approved in the future: dicyclohexyl phthalate, dibutyl phthalate, methyl phthalyl ethyl glycollate, diisooctyl phthalate, dioctyl adipate, dibutyl sebacate, dioctyl sebacate, and dicapryl sebacate. Suitable stabilizers are: Al monostearate, Ca acetate, Ca ethyl acetoacetate acetate, CaCO3, Ca stearate, Ca glycerophosphate, mono-, di-, and tricalcium phosphate, Ca oleate, Ca ricinoleate, Mg stearate, Mg glycerophosphate, mono-, di-, and trimagnesium phosphate, Na2HPO4, and NH4K phosphate. Compds. of Ba, Sr, Li, Cd, and Pb are too toxic for use as stabilizers. Salts of Mn and Cu and the oxide and stearate of Zn are safe stabilizers if the contamination therefrom is < 50 p.p.m.

AB

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- AN 2004:415678 CAPLUS
- DN 141:355026
- TI Studies on preformulation compatibility between lomefloxacin and tablet excipients through DSC and X-ray diffraction analysis
- AU Loganathan, V.; Kumar, K. Senthil; Reddy, M. V. Siva Prasada; Sreekanth, N.; Kumar, B. Senthil
- CS Dept. of Pharmaceutics, Periyar College of Pharmaceutical Sciences, Trichy, 620 021, India
- SO International Journal of Pharmaceutical Excipients (2003), (Apr.-June), 38-49
  CODEN: IJPEC4
- PB ENAR Foundation Research Centre
- DT Journal
- LA English
- AB Proper formulation is an important aspect of any dosage form design. As a part of preformulation studies, differential scanning calorimetry (DSC) was used to investigate the physicochem. compatibility between lomefloxacin and various excipients commonly used in tablet manufacturing, supported by x ray powder diffraction (X-RPD) studies. Compatibility studies were carried on samples of 1:1 phys. mixts. of the drug with various excipients viz., lactose, dicalcium phosphate, polyvinylpyrrolidone K-30, Et cellulose, sodium starch glycollate, microcryst. cellulose, magnesium stearate, Aerosil and sodium CM-cellulose as diluent, disintegrant, binder, lubricant, glidant and coating agent resp. at room temperature Lomefloxacin

was

found to be compatible with lactose, DCP and magnesium stearate. DSC studies indicated incompatibility with PVP K-30 Et cellulose, SSG, MCC powder, Aerosil and sodium carboxymethy-cellulose. However, X-RPD Studies carried out with PVP K-30, which demonstrated incompatibility with lomefloxacin. Thus DSC being a thermal method of anal. should not be used singly to detect any inherent incompatibility. It has to be supported sufficiently by other non-thermal techniques such as XRPD and FTIR. Thus, DSC and X-RPD techniques might help in coming out with a specific set of guidelines (Parameters) as to make DSC and X-RPD to go a long way in serving pharmaceutical industry in the field of preformulation studies.

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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